

AQUATIC PESTICIDE POLLUTION INCIDENTS IN ENGLAND AND WALES 1994-1995



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INTRODUCTION

This report summarises pollution incidents involving pesticides which the National Rivers Authority (NRA) investigated in 1994 and 1995 before it became the Environment Agency in 1996. The definition of "pollution incident" in this context is one which the NRA officers investigated as a result of a problem or potential problem reported to the authority. The NRA is often able to prevent an incident becoming serious and in many cases may prevent water pollution altogether, because of prompt reporting and immediate action taken when a pollution incident is reported.

RESULTS

The results have been collated from NRA pollution incident reports and have been summarised as follows:-

- a) Tables 1 & 2 give brief descriptions of the incidents in each Region for 1994 and 1995, the pesticide involved (where known) and the prosecution status;
- b) Table 3 summarises the statistics and categories of the incidents. Definitions of the categories are given in Appendix A;
- c) Figure 1 shows the areas covered by NRA regions.
- d) Figure 2 is a histogram showing the total number of reported and substantiated incidents between 1992 and 1995;
- e) Figure 3 is a histogram showing total substantiated pesticide pollution incidents in each NRA region for 1992-1995;
- f) Figure 4 is a histogram showing pesticide pollution incidents by category for 1995.
- f) Figure 5 are 2 pie charts showing the percentage of pollution incidents according to the cause of the incident for 1994 and 1995.

CATEGORY ONE INCIDENTS

In 1994, there were eight category 1 incidents. Two were agricultural, one involving run-off of isoproturon from waterlogged soil and one where a sprayer tanker spilled 750 litres of cypermethrin & vinclozolin into a stream. There was one incident involving sheep dip and one transportation incident where 230 litres of asulam were spilled when a tanker overturned. Two incidents were caused by fire; one when a mixture of herbicides entered a river via contaminated firewater following a fire at an agrochemicals store and another when lindane poured onto a bonfire contaminated a beck, killing more than 50 fish. Five hundred fish were killed when pesticide run-off from a golf course entered a watercourse. The pesticide was not identified. There was one further category 1 incident but no details are currently available due to legal action.



In 1995, there were six category 1 incidents. One occurred when more than 1800 litres of pesticide containing lindane and organo mercury were left at an old mill. This caused extensive environmental damage and a massive clean-up operation was undertaken. Two incidents arose from agricultural use. In one more than 500 fish in a pond were killed when pesticides were suspected to have run-off from a field and the other report of dead fish in a brook was not substantiated although black & dying vegetation was observed. There were two incidents, one involving diuron, which were suspected to be caused by weed killing at factory sites. In both cases rivers were polluted and fish killed. There was one other incident where fish were killed by a wood preservative and this was traced to a sawmill.

LEGAL ACTION

In 1994, four category 1 incidents resulted in legal action. One incident in North West resulted in prosecution but no details are available due to ongoing legal action. Also in North West Region, a warning letter was sent following an incident where sheep dip was sprayed onto thin topsoil and soaked into groundwater affecting drinking water supplies. In Southern Region formal samples were taken and served on a farmer after a tractor sprayer overturned causing the closure of a public water supply abstraction point. In South Western Region, a formal caution was given and costs fully recovered after pesticide run-off from a golf course killed five hundred fish. No category 2 or 3 incidents led to legal action in 1994.

One category 1 incident in 1995 resulted in legal action. This was the dumping of pesticides in an old mill in South Western Region. A category 2 incident also resulted in court action after pesticide from a garden centre's surface water drainage caused a fish kill. Three other category 2 incidents resulted in legal action; in Welsh Region a warning letter was sent following leakage from a neglected sheep dip; in Thames Region a formal caution was given to a farmer when leakage from a sprayer valve washed down to a watercourse and a formal warning was issued to a farmer in South Western Region after he oversprayed a watercourse, causing distressed fish. Two category 3 incidents also resulted in legal action. A formal sample was taken following an incident in Anglian Region where a roadside drain was contaminated following a sprayer spilling it's load and a formal warning was issued to a farmer in South Western Region after dead birds were observed following potato spraying.

CAUSES

In 1994, the greatest number of incidents (29%) arose from agricultural use (a decrease of 9%), followed by fire (24%) which increased by 22%. Transportation and sheep dip incidents both declined by 5% to 10% and 8% respectively. Dumping also declined by 1% to 5%. The remaining 24% of incidents came in the 'other' category.

In 1995 a new category 'Industrial' was introduced. This is to cover incidents at factory sites, timber treatment plants, garden centres etc. Previously such incidents have been entered in the 'Other' category.

Agricultural use once again caused the most incidents (30%) in 1995, followed by transportation (22%) which increased by 12%. Industrial incidents accounted for 18% of the total. Incidents caused by fire decreased by 18% to 6%. Sheep dip and dumping incidents both declined by 1% to 7% and 6% respectively and 11% of incidents came in the 'other' category.

DISCUSSION

It appears that the total number of substantiated pesticide pollution incidents has risen steadily from 40 in 1992 to 54 in 1995. This may be due to increased vigilance by the public in reporting pesticide pollution incidents. However, any possible increase in pesticide pollution incidents is of concern and indicates that continued improvements in practices are required to minimise pesticide incidents in future.

Most pollution incidents are the result of ignorance or apathy and could be prevented. There is continued determination within the Environment Agency to ensure that pollution prevention measures and messages work. The Agency has produced pollution prevention guidelines both on pesticides and sheep dip, and also other pesticide pollution prevention leaflets. Further work to highlight these important messages to pesticides users needs to be continued.

If pollution prevention fails and an incident occurs, this should be reported immediately. The Environment Agency operates a 24 hour a day, 7 days a week, free emergency hotline 0800 80 70 60 for reporting incidents. Prompt reporting and subsequent action by the Agency can often prevent an incident becoming serious and help protect the environment. The availability of the hotline number should also be stressed to pesticide users.

June 1996

Table 1 Substantiated Pesticide Pollution Incidents 1994 (* indicates no environmental effects because pollution was contained)

	Incident and Environmental Effect	Pesticide (\$ denotes trace levels only)	Category	Prosecution
	ANGLIAN REGION			
1	Fire at agrochemical store on farm. Contaminated firewater washed down a drain to the river - Intake closed and samples taken. A mixture of herbicides were involved.	Mecoprop Hydrocarbons	1	N
2	Dead fish reported in river. Source of pollution unknown but pesticide spray suspected. Approx 200 fish killed.	Unknown	2	N
3	Spray tanker overfilled and fungicide passed to soakaway drain. No environmental effects known.	Unknown	2	N
4	Routine analysis showed exceedence of drinking water limit. Source possibly from a farm pit.	Terbutryn Trietazine	2	N
5	Sheep dip disposed of to canal. Fish affected.	Sheep Dip	3	N
6	Vandals broke into groundsmans store and spilled up to 100 litres of chemicals - Supertox, Clovotox & Mildothane Roural Liquid. Fire Service washed down with 2000:1 ratio of fresh water - soaked away at edge of playing fields.	2 4 D Mecoprop Thiophanate-methyl	3	N
7	Sacks and containers found in river which said Iosan Anthem (teat dip for cows). No environmental effects known.	Unknown	3	N
8	Fungicide spilt on road following road traffic accident. Washed into roadside verge. No environmental effects known.	Unknown	3	N
9	9kg bag of Phorate fell from vehicle onto road. Fire service swept up and neutralised chemical. No environmental effects known.	Phorate	3	N
10	Reported washing out of spray tanks next to river. No environmental effects known.	Unknown	3	N
11	Overspraying near watercourse. Plant life affected.	Unknown	3	N
*12	Fungicide leaked from a 200kg drum being carried by a lorry. Approx 20 litres lost. The fire brigade blocked off the drains and absorbed the fungicide with sand.	Unknown	3	N
*13	Car containing 180 litres of herbicide Hysward caught fire. Most contained. No environmental effects known.	Mecoprop Dicamba MCPA	3	N
*14	Approximately 800 litres of diluted herbicide - Encore - spilt onto road and into drains. Spillage contained in road gullies. Tanker arranged to clean out gullies and sand to absorb puddles.	Isoproturon Pendimethalin	3	N
*15	About 23 litres of dilute Hoegrass herbicide spilt down a surface drain on a farm when pipe burst on chemical sprayer. Most of the spillage soaked up with sand. No environmental effects observed.	Diclofop-methyl	3	N

	NORTHUMBRIA & YORKSHIRE REGION			
16	Lindane poured onto bonfire. Beck contaminated and 50+ fish killed.	Lindane	1	N
17	Tanker overturned spilling approx 50 gallons of pesticide (Asulox). Abstraction point closed. No environmental effects known.	Asulam	1	N
18	Chemical smell reported near a farm. Sheep dip was entering the stream from dip trough. Water course affected.	Sheep dip (Unidentified)	2	N
19	Samples at intake found to be above drinking water standard for Mecoprop. Source unknown.	Mecoprop	2	N
20	Spillage of 100 litres of crop spray mix, 6 litres of active ingredient. Spillage soaked away in road verge. Unlikely contamination of watercourse.	Unknown herbicide	3	N
21	Helicopter spraying Asulox to control bracken. Pesticide spread onto Yatcholme reservoir.	Asulam	3	N
22	Sheep dip containers, some containing dip, dumped near stream. No environmental effects known.	Sheep Dip (Unidentified)	3	N
23	Selective spraying for nettles and rushes in windy conditions - threat to watercourse. Sample taken. No environmental effects known.	Unknown	3	N
*24	Approx 800 litres of MSS Iprofile herbicides entered surface water drain following barn fire at farm. Water course blocked off and contaminant contained and removed.	Isoproturon	2	N
*25	Pesticide spilt in trailer accident. Pollution contained & no environmental effects known.	Unknown herbicide	3	N
	NORTH WEST REGION			
26	No details available due to legal action.	No details	1	Y
27	Sheep dip sprayed onto thin topsoil and soaked via limestone sub-soil into groundwater. Drinking water supplies were affected as was a stream. Warning letter sent.	Chlorfenvinphos Propetamphos	1	N
28	Sheep Dip full to overflowing. No environmental effects observed.	Unknown	3	N
	SEVERN TRENT REGION			
*29	Spillage of 1000 litres of mixed herbicide (Ardent) in farmyard. Contained by earth bank. No environmental effects observed. Formal sample taken as a precaution.	Trifluralin (\$)	2	N
	SOUTHERN REGION			
30	Pesticide spraying during a period of wet weather and on waterlogged soil led to run-off causing exceedance of drinking water standard.	Isoproturon	1	N
31	Tractor sprayer overturned spilling 750 litres of pesticide into a dyke. Downstream drinking water abstraction point closed. Formal samples taken and served on farmer.	Cypermethrin & Vinclozolin	1	N

32	Yard fire involving timber preservatives. No environmental effects known.	Unknown	3	N
33	400 gallons of Pallitop fungicide spilt on land at cricket club.	Nitrothal-isopropyl	3	N
34	Formalin Sterilent Solution entered water - only traces remained.	Formalin	3	N
35	Water contaminated by Curzate upstream from water abstraction point.	Cymoxanil & Mancozeb	3	N
*36	200 litres of pesticide spilt at wharf but contained. No environmental effects known.	Lindane	3	N
SOUTH WESTERN REGION				
37	Pesticide runoff from Golf Course. 500 fish killed. Formal caution given and costs fully recovered.	Unknown	1	N
38	Pesticide detected in water treatment works raw water. Source unknown.	Lindane	2	N
39	Water turned green at fish farm - visual effects only.	Malachite Green	2	N
40	Vet report of dog poisoned - source unknown. No environmental effects known.	Unknown	3	N
41	Vet report of dog poisoned - suspected organophosphate. No environmental effects known.	Organophosphate	3	N
42	Run-off from sheep dip. No environmental effects known.	Unknown Sheep Dip	3	N
43	Washings run off to watercourse. No environmental effects known.	Unknown	3	N
44	Rat poison sachets found on watercourse. No environmental effects known.	Unknown	3	N
45	Run off following accidental spill of "Optica".	Mecoprop-P	3	N
46	Factory discharge of timber treatment products. No environmental effects known	Cuprinol products	3	N
47	Run-off of organophosphate to watercourse. No environmental effects known.	Organophosphate	3	N
48	Bankside spraying of herbicide near watercourse. No environmental effects known.	Glyphosate	3	N
49	Borehole contamination by pesticide. Minor environmental effects occurred.	Atrazine	3	N
THAMES REGION				
50	Spillage of Tristar to roadside ditch from spray tank. Ditch pumped out. No environmental effects known.	Trifluralin	3	N
WELSH REGION				
51	Approx 30 Rainbow trout died and pond discoloured due to spraying of herbicide (Agricorn 500) adjacent to the pond and use of an aquatic herbicide (Clarosan) in an upstream pond.	MCPA Terbutryn	2	N
52	Contaminated water in tributary of River Llynor. Source of pollution not traced & no environmental effects known.	Unknown	3	N

Table 2 Substantiated Pesticide Pollution Incidents 1995 (* indicates no environmental effects because pollution was contained)

	Incident and Environmental Effect	Pesticide (\$ denotes trace levels only)	Category	Prosecution
	ANGLIAN REGION			
1	More than 500 fish reported dead in pond. Cause suspected to be run-off from field just sprayed with pesticides.	Unknown	1	N
*2	Fire at agrochemical store on farm. Contaminated run-off prevented by Fire Brigade bunding the store. No environmental effects known.	Unknown	2	N
3	Domestic well supply contaminated. Herbicide may have been used historically to control track side vegetation by BR.	Atrazine	2	N
4	Dead invertebrates found in beck about 50m upstream and downstream of a bridge. Suspected pollution from washing out a sprayer.	Unknown	3	N
*5	Tractor towing spray tanker overturned on the road. Contained about 100 litres of rinse water which spilled onto road. Fire Brigade washed spillage down with 500 litres of water & run-off drained into soakaway dug in roadside verge. No environmental effects known	Isoproturon Cypermethrin	3	N
*6	Spraying tank spilled onto road and road gully. Fire Brigade asked to dam off watercourse and pumped the contaminated water onto nearby arable fields while flushing out the roadside drainage system. No environmental effects known.	Clodinafop-propargyl Cloquintocet-methyl	3	N
*7	Three 9kg bags of pesticides/herbicides dumped in small waste disposal pit and set on fire. Fire Brigade applied water sparingly to prevent toxic emissions and to damp down. Location is in a major aquifer with groundwater vulnerability soil class intermediate. No environmental effects known.	Disulfoton Isoproturon	3	N
*8	Wheel broke on tractor sprayer causing spillage from container holding Roundup. Chemical ran down farm track. Farmer diverted most of it into the adjacent field but some entered watercourse & was diluted with >1000 gallons of water. No environmental effects known.	Glyphosate	3	N
*9	Chemical spilled outside Police Station. Fire service contained chemical & cleaned it up using absorbent material. No environmental effects known.	BAS 480F	3	N
*10	Brown liquid accumulation in pipe trench. Reporter alleged pollution based on sample taken by him. No environmental effects known. Formal sample taken.	Unknown	3	N
11	Dying weeds reported in stream. No other environmental effects known.	Unknown	3	N
*12	Axle on sprayer tanker broke causing the tank to rupture & approx 800 litres of Butisan to enter roadside ditch. Fire Brigade dammed the ditch, road hosed down and ditch emptied. No environmental effects known.	Metazachlor	3	N

13	Connection of farm sprayer came undone whilst on main road. Farmer turned off onto waste ground to mend, but 200 litres of pesticide & herbicide spilled onto road junction and waste ground.	Unknown	3	N
	NORTHUMBRIA & YORKSHIRE REGION			
	No substantiated pollution incidents related to pesticides			
	NORTH WEST REGION			
14	(Incident 26 1994) - No details available due to ongoing legal action.	No details	1	Y
15	At least 50 dead fish found upstream of dredging works being carried out by Flood Defence. No obvious sources, but farmers had been spraying in the area recently.	Unknown	2	N
16	Deterioration of tributary due to washings from mushroom growing process, containing compost & unknown amounts of the chemicals. These go directly into the tributary via surface water drainage.	Unknown	2	N
17	Watercourse downstream of a road bridge contaminated and invertebrates killed/paralysed. Thought to be residues/washings from a tanker/sprayer after spreading on land.	Unknown	3	N
18	Seven 5 litre containers of Roundup dumped next to a road bridge crossing a stream. It was not known whether the contents had been emptied into the water. Some held residues of weedkiller.	Glyphosate	3	N
19	A discharge from an apparently abandoned drain was discovered during a routine inspection. Uron pesticides are manufactured at the site. No environmental effects observed. Remedial action was taken by the company.	Unknown	3	N
20	A small quantity of liquid seen seeping out of the bank into the river during a routine inspection. There was a problem with the site's pumping station which was causing the effluent to back up in the drain. (Uron pesticides are manufactured at the site). No environmental effects observed. Remedial action was taken by the company.	Unknown	3	N
*21	Small spillage of timber treatment chemicals in the car park next to the factory where timber treatment was carried out. No environmental effects known.	Lindane	3	N
	SEVERN TRENT REGION			
22	A report was received about dead fish in a brook. Pollution Control observed black & dying vegetation but no dead fish.	Unknown	1	N
23	Pollution Control received two reports of dead fish. Fish and invertebrate kill for over 2km downstream of factory. Samples taken - suspected weed killing at factory but nothing proved.	Diuron	1	N

24	Canal polluted due to fish kill on river Cam. Dead fish observed 2km downstream of factory. Samples taken but nothing found - suspected weed killing on site but could have been a spillage.	Unknown	1	N
*25	Spillage of 200 litres of pesticides to foul sewer. No known environmental effects.	Permethrin Cyfluthrin	2	N
*26	A fire in a building containing pesticides. The pesticides were either lost in the fire or washed away by the firewater. The firewater drained to a dry ditch where it soaked away. No known environmental effects.	Unknown	3	N
*27	25 litres of Gammacol crop spray diluted with water spilled on road en route from the farm to the field. Road sweeper swept the area several times. No liquid appeared to go down the drains. Contents of sweeper emptied onto farmers field together with washings from the sweeper. No environmental effects known.	Lindane	3	N
28	Discharge entering brook from land drains serving two fields. Looked grey in brook but brown in bottle. Samples taken identified it as a pesticide. Source unknown. No known environmental impact.	Isoproturon	3	N
29	Raw water sample found to contain Isoproturon above 0.1 µg/l - source unknown.	Isoproturon	3	N
30	Raw water sample found to contain Isoproturon above 0.1 µg/l - source unknown.	Isoproturon	3	N
31	Operatives spraying weedkiller without due care - filling spray bucket in stream and a poor spraying technique. No known environmental impact.	Unknown weedkiller	3	N
SOUTHERN REGION				
32	Dead fish seen in water. Traced to local sawmill - Fentex wood preservative.	2-(Thiocyanomethylthio)- Benzothiazole	1	N
33	Dead fish found in stream below road bridge. Suspected loss of pesticide (Dursban 4) to garden centre surface drainage. Formal samples taken. Court action pending.	Chlorpyrifos	2	Y
34	20-30 small dead fish seen coming through sluice. Source not identified.	Isoproturon	2	N
35	Stream smelt of disinfectant - source unknown. No known environmental impact.	Unknown	3	N
*36	Road traffic accident resulted in spillage of weedkiller. Pollution was contained. No environmental effects known.	Unknown	3	N
37	Spillage from Gramoxone plant drained to effluent lagoon. No environmental effects known.	Paraquat	3	N
SOUTH WESTERN REGION				
38	1800 litres plus pesticides dumped at old mill. Extensive environment damage - full chemical emergency. Prosecution pending.	Lindane Organo Mercury	1	Y
39	Overspraying with herbicide/fungicide in fields. Distressed fish/gammarus in watercourse. Formal warning issued.	Unknown	2	N
40	Horses refused to drink water. No other environmental effects known	Unknown	3	N

41	Dead birds observed after potato field spraying. Formal warning issued.	Unknown	3	N
*42	250 gallons of diluted weedkiller went down surface water drain but did not enter watercourse. Gulley sucked out next day. No environmental effects known.	Unknown	3	N
*43	25 kg drum Youngs Summer Dip spilled at freight depot. Cleaned up with sawdust & skipped. Did not enter watercourse - no environmental effects known.	Propetamphos	3	N
44	Farmer spraying banks of watercourse with herbicide. No known environmental impact - Farmer warned & advised.	Unknown	3	N
*45	Fire at garden centre involving 1 tonne of miscellaneous pesticides. Pollution contained - no environmental effects known.	Various Paraquat	3	N
*46	Approx 100 gallons 'Dursban' insecticide mix spilled when tanker overturned. Soaked into ground away from watercourse - no environmental effects known.	Chlorpyrifos	3	N
*47	Small area contaminated with tanalising substance. No environmental effects known.	Unknown	3	N
48	100 litres of dilute Supaturf/Aquagrow spilled when tractor/trailor uncoupled. Liquid drained into sewer and via sea outfall. No known environmental impact.	Unknown	3	N
THAMES REGION				
49	Valve leak from sprayer "Tigress" pesticide washed down to watercourse. No known environmental impact. Formal caution given.	Diclofop Fenoxaprop-P	2	N
50	Approx 500 dead fish observed in river.	2 Phenoxyethanol	2	N
*51	500 litre spillage from road tanker to dry ditch, soaked away. No environmental effects known. Included: "Microsol, Genie, Terpal & Agral".	Various chemicals.	3	N
52	Report received of chemicals in a surface water drain. No known environmental impact.	Unknown	3	N
WELSH REGION				
53	Leakage from sheep dip located adjacent to river due to neglect, which resulted in a kill of Gammarus. Warning letter sent.	Propetamphos	2	N
54	Exceptional data report of Diazinon @ 0.033 µg/l. No known environmental impact.	Diazinon	2	N
55	Sheep Dip overflowed adjacent to river due to inadequate design. No known environmental impact.	Unknown Sheep Dip	3	N

Table 3 Pesticide Pollution Incidents

REGION	CATEGORY 1		CATEGORY 2		CATEGORY 3		UNSUBSTANTIATED INCIDENTS (CATEGORY 4)		TOTAL NUMBER OF REPORTED INCIDENTS	
	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
Anglian	1	1	3	2	11	10	0	1	15	14
Northumbria & Yorkshire	2	0	4	0	4	0	1	5	11	5
North West	2	0	0	2	1	5	0	0	3	7
Severn-Trent	0	3	1	1	0	6	0	2	1	12
Southern	2	1	0	3	5	2	6	0	13	6
South Western	1	1	2	1	10	9	7	7	20	18
Thames	0	0	0	2	1	2	18	12	19	16
Welsh	0	0	1	2	1	1	18	0	20	3
TOTALS	8	6	11	13	33	35	50	27	102	81

APPENDIX A - DEFINITIONS

NRA Definitions of Pollution Incident Categories

Category 1

A major incident involving one or more of the following:

- a) potential or actual persistent effect on water quality or aquatic life;
- b) closure of potable water, industrial or agricultural abstraction necessary;
- c) extensive fish kill;
- d) excessive breaches of consent conditions;
- e) extensive remedial measures necessary;
- f) major effect on amenity value.

Category 2

A significant pollution which involves one or more of the following:

- a) notification to abstracters necessary;
- b) significant fish kill;
- c) measurable effect on invertebrate life;
- d) water unfit for stock;
- e) bed of watercourse contaminated;
- f) amenity value to the public, owners or users reduced by odour or appearance.

Category 3

Minor suspected or probable pollution which, on investigation, proves unlikely to be capable of substantiation or to have no notable effect.

Category 4

Introduced from January 1995. A reported incident which, on investigation, cannot be substantiated.

MAFF Definition of a Serious Incident

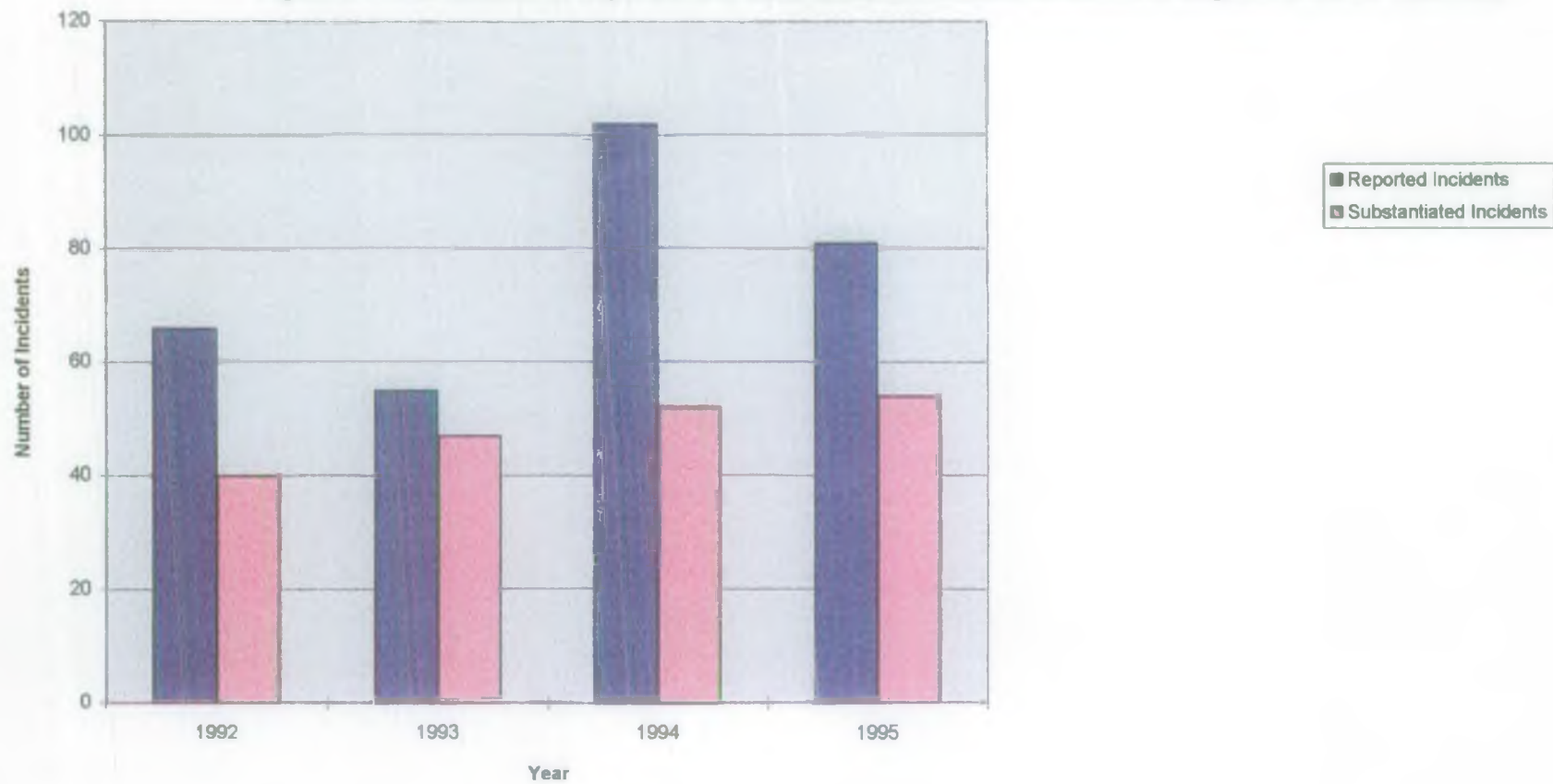
An incident that has any of the following effects and includes all cases where legal proceedings are initiated:

- a) downgrades the class of any water course classified in the River Quality Survey by more than 10% over 0.5 km;
- b) interferes with water abstraction through quantity and quality;
- c) results in fish mortality;
- d) causes significant interference with legitimate use of water, including stock watering;
- e) adversely affects any SSSI, nature reserve or area of high conservation interest.

Figure 1 - NRA Regions in England & Wales



Figure 2 - Total Number of Reported and Substantiated Pesticide Incidents in England & Wales 1992-1995



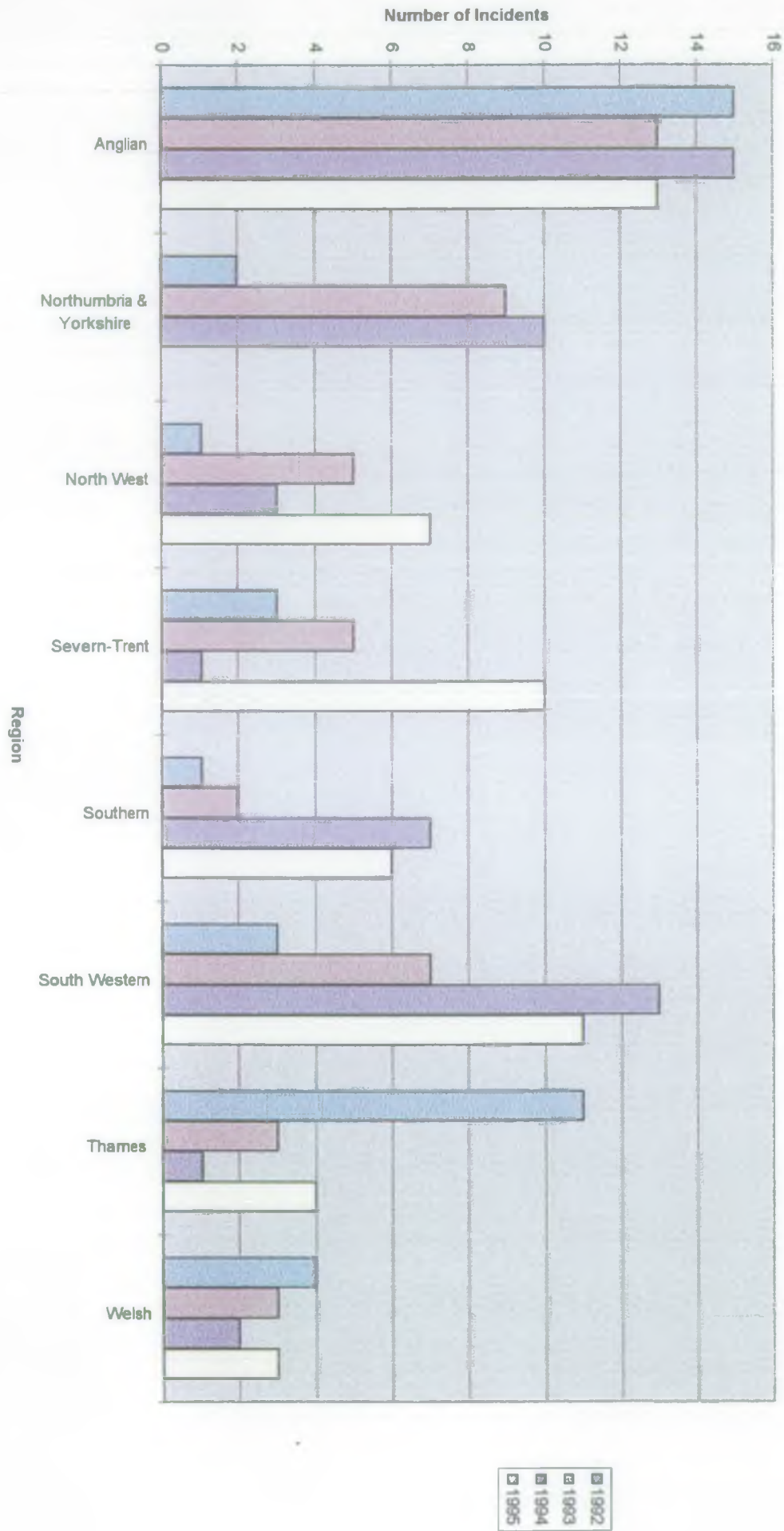


Figure 3 - Substantiated Pesticide Pollution Incidents in Each NRA Region (Totals) 1992-1995

Figure 4 - Pesticide Pollution Incidents by Category 1995

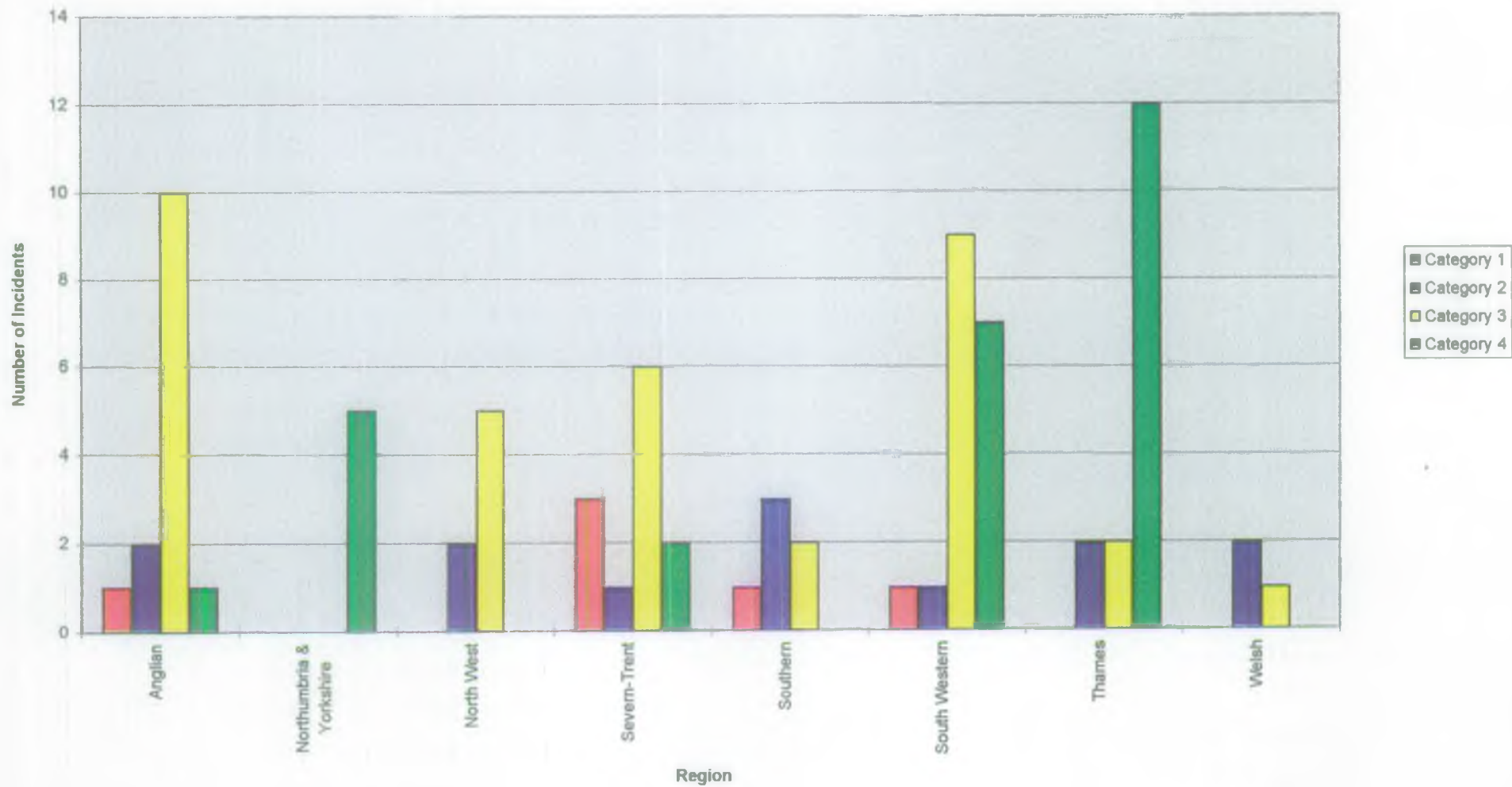
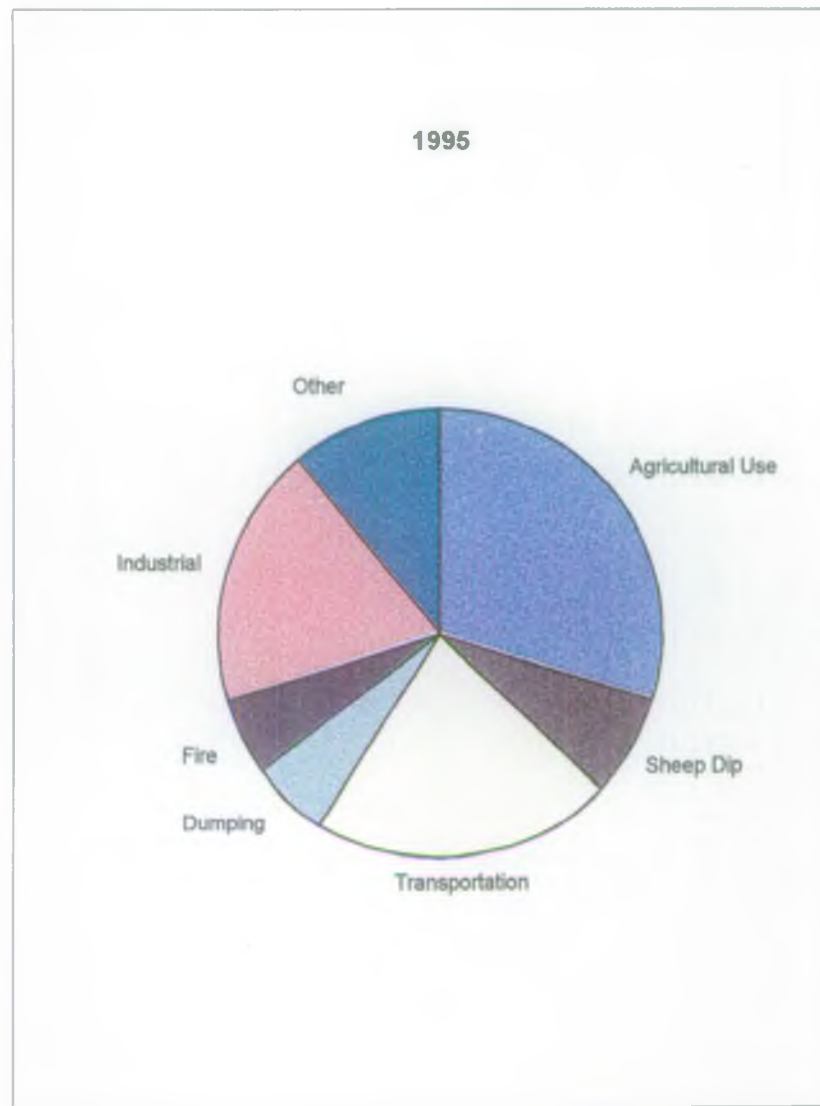
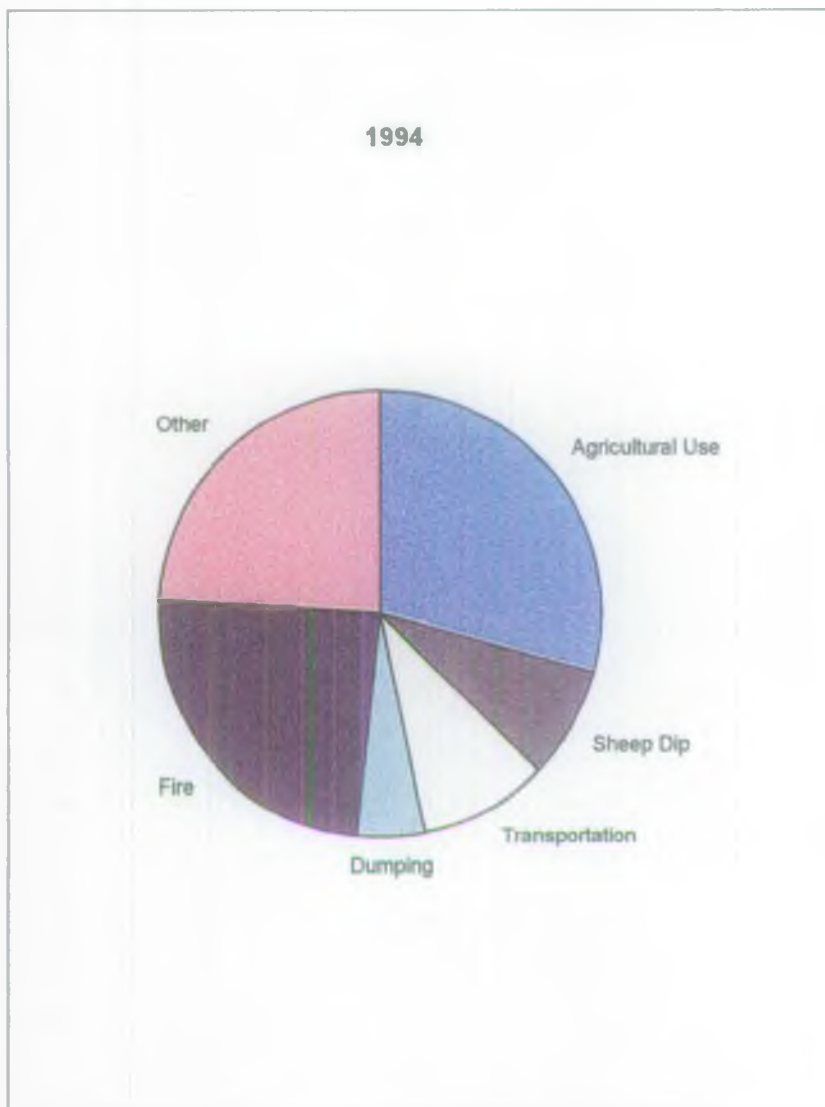


Figure 5 - Percentage of Pollution Incidents According to the Cause of the Incident



MANAGEMENT AND CONTACTS:

The Environment Agency delivers a service to its customers, with the emphasis on authority and accountability at the most local level possible. It aims to be cost-effective and efficient and to offer the best service and value for money.

Head Office is responsible for overall policy and relationships with national bodies including government.

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Cardiff CF3 0LT
Tel: 01222 770 088
Fax: 01222 798 555



The 24-hour emergency hotline number for reporting all environmental incidents relating to air, land and water

**ENVIRONMENT AGENCY
EMERGENCY HOTLINE**

0800 80 70 60



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AGENCY**